IN THE CLAIMS

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121.

- (original) A method of coating a CMC fiber, comprising:
 passing a flow of fiber coating reactant though said reaction zone; and
 disrupting at least a portion of said flow of reactant from a path substantially
 parallel to said fiber path to create a mixing flow adjacent said fiber.
- 2. (original) The method of claim 1, wherein said reaction zone is a CVD reactor chamber.
- 3. (original) The method of claim 2, wherein said fiber is passed through a first seal through said CVD reactor chamber to discharge at a second seal of said reactor chamber.
- 4. (original) The method of claim 1, wherein said fiber comprises a single monofilament fiber.
- 5. (original) The method of claim 1, wherein said fiber comprises a fiber tow.
- 6. (original) The method of claim 5, wherein a plurality of fiber tows are simultaneously passed through said reaction zone for coating.
- 7. (original) The method of claim 1, wherein said fiber is a silicon carbide fiber.

- 8. (original) The method of claim 1, wherein said fiber is an aluminum oxide fiber.
- 9. (original) The method of claim 1, wherein said fiber is a silicon carbide-based fiber.
- 10. (original) The method of claim 1, wherein said fiber coating reactant comprises a hydrocarbon.
- 11. (original) The method of claim 1, wherein said fiber coating reactant comprises methane.
- 12. (original) The method of claim 1, wherein said fiber coating reactant comprises boron trichloride and ammonia.
- 13. (original) The method of claim 1, wherein said fiber coating reactant comprises boron trichloride, ammonia and a silicon precursor.
- 14. (original) The method of claim 13, wherein the silicon precursor is selected from dichlorosilane, trichlorosilane, silicon tetrachloride and silane.
- 15 (original) The method of claim 1, wherein said fiber coating reactant includes hydrogen or nitrogen.
- 16. (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.05 Torr to about atmospheric pressure 760 Torr.

- 17. (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.1 to about 50 Torr.
- 18. (original) The method of claim 1, wherein said reaction zone is maintained at a pressure about 0.3 to about 10 Torr.
- 19 (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 700° to about 1800°C.
- 20. (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 1100° to about 1550°C.
- 21. (original) The method of claim 1, wherein said reaction zone is maintained at temperature of about 1350° to about 1500°C.
- 22. (original) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.020 to about 1 inch.
- 23. (currently amended) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.045 to about 0.25 inches.
- 24. (original) The method of claim 1, wherein a tow of fibers is passed through the reaction zone and the tows are spaced apart about 0.05 to about 0.1 inch.
- 25. (original) The method of claim 1, the fiber is passed through the reaction zone at a rate from about 1 to about 200 inches/minute.

- 26. (currently amended) The method of claim 1, the fiber is passed through the reaction zone at a rate from 5 to about 100 inch/minute-inches/minute.
- 27. (original) The method of claim 1, the fiber is passed through the reaction zone at a rate from about 10 to about 60 inches/minute.